

OBID i-scan[®] UHF

8-times UHF Multiplexer ID ISC.ANT.UMUX



SPECIAL FEATURES

- Communication between reader and multiplexer via the antenna cable
- Control of the antenna outputs either by the host or by the reader
- Power supply via the antenna cable possible (only LRU3500)
- Wear free electronic switching of the outputs
- High switching speed (<1 ms)
- Cascade connection feature (up to 3 cascade levels)



DESCRIPTION

The 8-times UHF multiplexer ID ISC.ANT.UMUX is designed for switching of RFID- antennas in the frequency range between 860 MHz and 960 MHz.

With one ID ISC.ANT.UMUX several single antennas can be connected to one antenna output of a reader.

It is possible to cascade the ID ISC.ANT.UMUX in up to three levels. Thereby it is possible to connect up to 512 antennas to one reader output.

To use the cascade connection feature the different multiplexers can be addressed by DIP switch settings. The multiplexer is controlled via the antenna cable. No additional wiring effort and no extra control cable is required. This allows an easy installation of the hardware even if several multiplexers are cascaded. An individual addressing of each antenna is possible. Also the number of an antenna which has read the transponder can be achieved.

TECHNICAL DATA

Dimension (B x H x T)	85 mm x 145 mm x 27 mm
Weight	170 g
Housing	Plastic ABS
Color	Black, transparent
Protection Class	IP 30
Operating Frequency	860 MHz to 960 MHz
Power Supply	12 V DC to 24 V DC, +/- 10%
Power Consumption	max. 200 mA
Insertion Loss	max. 2,2 dB
Isolation	min. 28 dB
Max. Input Power	max. 4 W
RF-Connector	
- 1x Reader Input	SMA-Female (50 Ω)
- 8x Antenna Output	SMA-Female (50 Ω)
DC-Coupling	7 V / 150 mA, or 12V DC to 24 V DC / 150 mA
Signaler, optical	4 LEDs (Diagnostic, Operating state) 8 LEDs (Indication of active antenna output)
Temperature Range	
- Operation	-25 °C to 55 °C
- Storage	-25 °C to 85 °C

ORDERING INFORMATION

ID ISC.ANT.UMUX UHF Multiplexer

APPLICABLE STANDARDS

EMC	EN 301 489-3
Safety	EN 60950

Note: FEIG ELECTRONIC reserves the right to change specification without notice at any time. Stand of information: December 2011